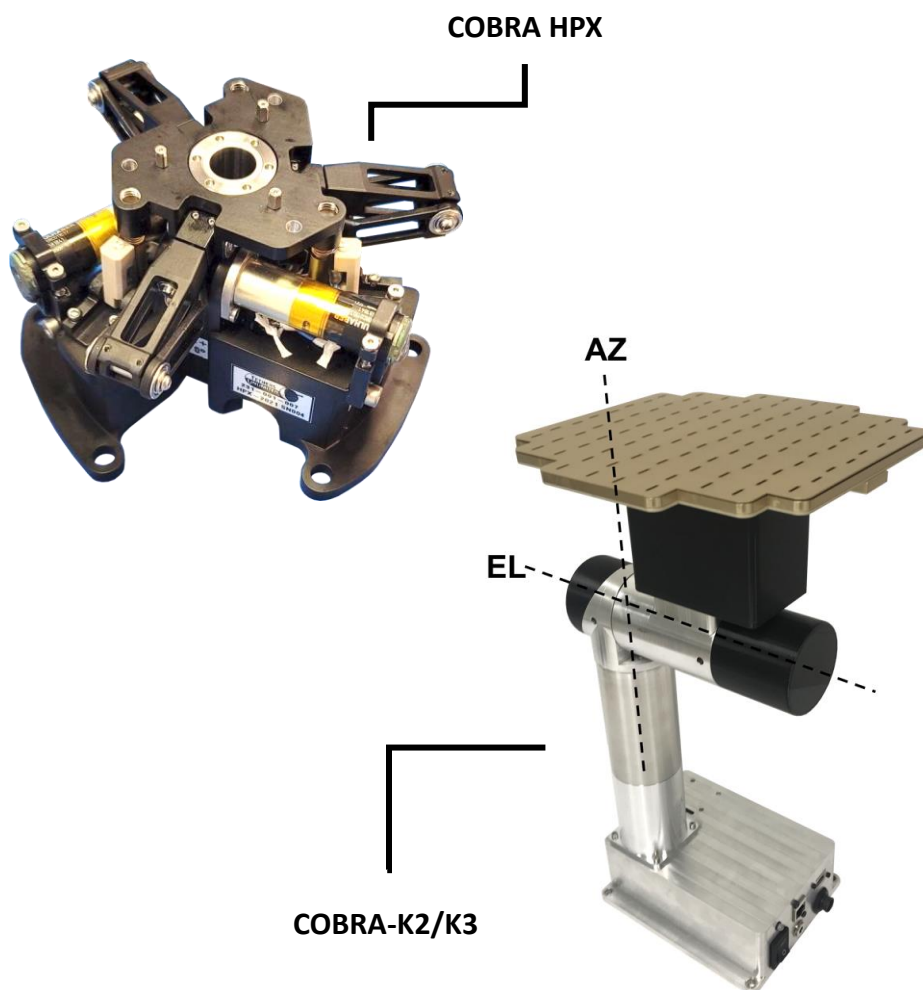


COBRA™ Gimbals

High-Performance Gimbal Systems for Pointing Applications

Description

The COBRA™ Gimbal family is a group of space-qualified pointing mechanism which offers unprecedented control in the most extreme environments. The COBRA Gimbal HPX and K2 have exceptional pointing capability for pinpoint accuracy of communication antennas, sensor instruments & propulsion devices.



Why COBRA™?



Flight Heritage

Flown several configurations across a multitude of missions



Low SWaP-C

Easily integrate with spacecraft, landers, and rovers



Near Hemispherical Pointing

Great for Antenna pointing



Integrated Launch Lock

Available as an option for launch stowage.

Specifications

Function	COBRA HPX
Payload Capacity	Up to 1.25 kg Max
Pointing accuracy	Up to 0.5°
System Mass	0.45 kg + commander (0.5 kg)
Operational Power	Operational: 7 W; Standby: 4 W Max
Slew Rate	Up to 30°/s Max
Footprint size	115 mm (diameter) x 69 mm (stowed)
Workspace Range	+/- 75° Elevation, 360° Continuous Azimuth
Vibration Environment	7.1 Grms w/launch Locks (14 Grms with 0/8 kg payload)
Operating Environment	-30C to 70C; Survival: -40C to 85C
Radiation	Gimbal Mechanism: 50kRad TID, No Destructive Latch-ups Commander: 15kRad TID, No Destructive Latch-ups

Function	COBRA K2 (2DOF)
Payload Capacity (1G)	Up to 25 kg Max
Pointing accuracy	Up to 0.18°
System Mass*	4 kg + commander (0.5 kg)
Operational Power	Operational: 15 W; Standby: 4 W Max
Slew Rate	Up to 30°/s Max
Footprint size	486 mm x 250 mm x 200 mm*
Workspace Range	+/- 330° Elevation, 330° Continuous Azimuth
Vibration Environment	7.1 Grms w/launch locks
Operating Environment	-30C to 70C; Survival: -40C to 85C
Radiation	Gimbal Mechanism: 50kRad TID, No Destructive Latch-ups Commander: 15kRad TID, No Destructive Latch-ups

*Link lengths are customizable as an option